

OKLAHOMA CITY AREA

The Oklahoma City Area has an internal telemedicine application in the area of diabetic retinopathy at the Carl Albert Indian Hospital. The Choctaw Nation operates a telemedicine network over a state communications system to three remote sites of Broken Bow, McAlester, and Hugo.

1. Carl Albert Indian Hospital

Area Office	Oklahoma City Area
Indian Facility	Carl Albert Indian Hospital
Primary Use	Telemedicine (ophthalmology, diabetic retinopathy)
Use Status:	Sustainable
Facility Contact	John Garber, OD 1001 North Country Club Drive, Ada, OK 74820 Phone 580-436-4512, 580-421-6290
Grantee	Internal IHS Project
Funding	\$10,000 local programming funds
Summary	Since February 2000, the Carl Albert Indian Hospital has operated digital disease detection and tracking system to assist in managing diabetic retinopathy.

Diabetic patients in primary care clinics undergo digital retinal imaging. A digital fundus camera is used along with an off-the-shelf workstation able to optimize management of large sets of image data. The display monitor is specially designed to view the images of 3-Dimensions using "stereoscopic display". These images are transmitted to the Inoveon Evaluation Center in Nashville, Tennessee, for an interpretation of the state of retinopathy and recommendations for preferred care based on the American Academy of Ophthalmology Preferred Practice Patterns. The hospital served as a beta test site for the system originally developed at the University of Oklahoma's Center for Telemedicine. The system was clinically validated and commercialized as a service and is available to others through Inoveon Corporation of Oklahoma City. Inoveon offers a turnkey solution where it provides the equipment and full-time employee and the end-user simply pays on a per-patient basis. A T-1 connection is used by the facility, but other alternatives are also feasible (ISDN, DSL, cable-modem). The screening program averages 20-25 consult per week and expects the number to reach 500 for the year 2000.

2. Choctaw Nation Health Services Authority

Area Office	Oklahoma Area
Indian Facility	Choctaw Nation Health Services Authority
Primary Use	Telemedicine
Use Status	Sustainable
Facility Contact	Theresa Jackson, Director, Physical Services Choctaw Nation Health Services Authority, Route 2 Box 1725, Talihina, OK 74571, Phone 918-567-7000 x 7096, Fax 918-567- 7041
Grantee	Choctaw Indian Nation Hospital
Funding	RUS - FY 97 - \$198,352 RUS - FY 99 - \$195,812
Grant Contact	See Facility Contact

Summary: **The Choctaw Nation Indian Hospital operates a telemedicine network connecting three remote clinic sites of Broken Bow, McAlester and Hugo.**

The Choctaw Nation Indian Hospital used grant funds to establish a local and wide area network system to serve the hospital and three remote clinics in Broken Bow, McAlester and Hugo. Videoconferencing equipment connects physicians and other health care providers for consultation among patients, local physicians, and remote specialists. Teleradiology components allow the interchange of images among the four sites. Telemedicine use was expanded through the second grant to enhance video conferencing capabilities through Oklahoma's OneNet services. OneNet is Oklahoma's telecommunications network for education and government that uses fiber optics and wireless technologies for voice, video, and data transmission.

Direct medical eye care services and medical training is provided from the Northeastern State University College of Optometry, Tahlequah, and Oklahoma State University College of Osteopathic Medicine, Tulsa. Other specialty services include medical care for diabetes, cardiology, orthopedics, and ophthalmology. Telehealth training is available for providers, students and residents for medical and non-medical training. The Choctaw Nation Health Service Authority covers 15,000 square mile area with a population well over 60,000 people.